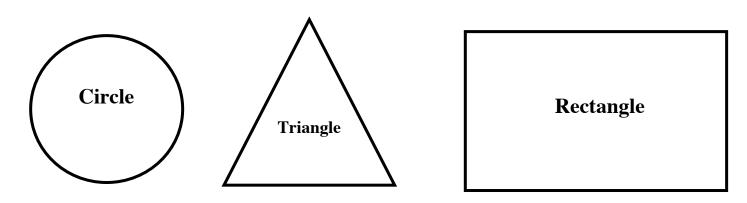
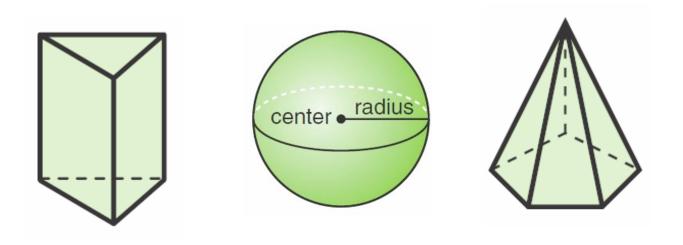
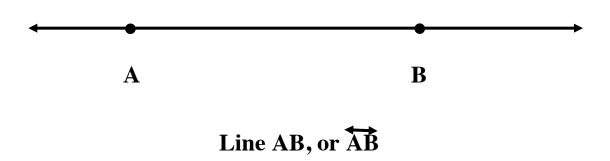
2-Dimensional (2-d) — a figure whose points are all in one plane but not all on one line



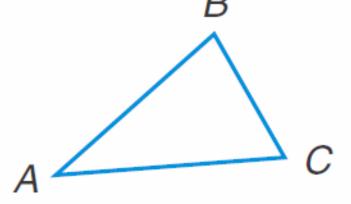
3-dimensional (3-D) — a figure whose points are not all in a single plane



Line – a 1-dimensional straight path that extends forever in opposite directions; named using two points on it

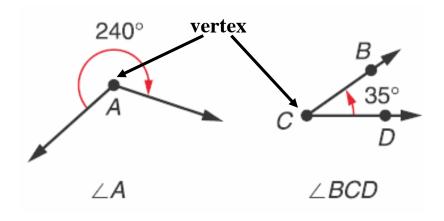


Adjacent Sides — two sides of a polygon with a common vertex

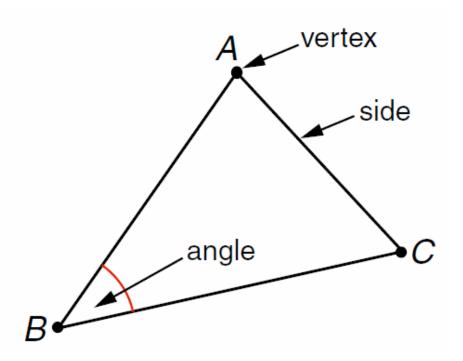


Sides AB and BC, BC and CA, and CA and BA are pairs of adjacent sides

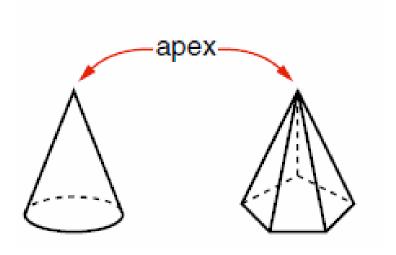
Angle – a figure formed by two rays or two line segments with a common endpoint called the vertex of the angle; the rays or segments are called the sides



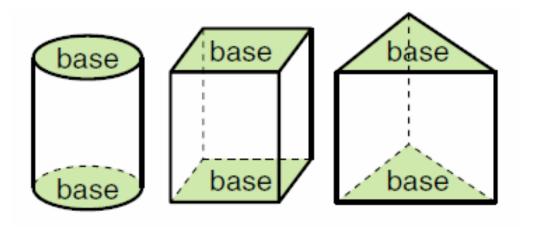
Angle of a Triangle – the angles on the interior of a triangle



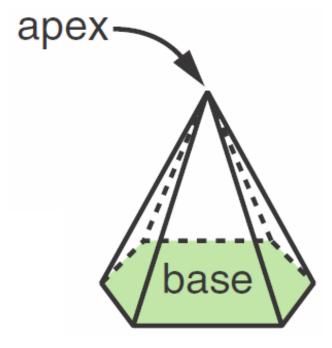
Apex — in a pyramid or cone, the vertex opposite the base; in a pyramid, all the non-base faces meet at the apex



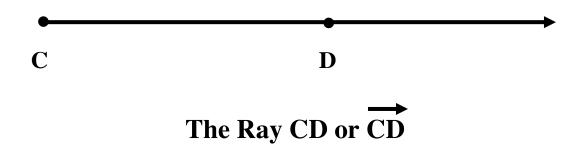
Base of a prism or cylinder — either of the two parallel and congruent faces that define the shape of a prism or cylinder; in a cylinder, the base is a circle



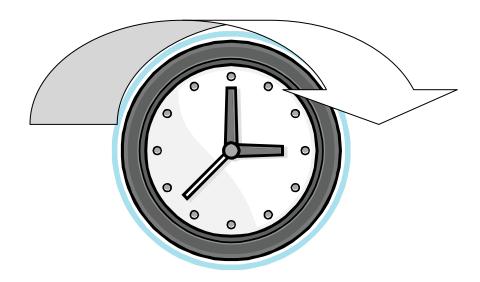
Base of a Pyramid — the face of a pyramid that is opposite the apex



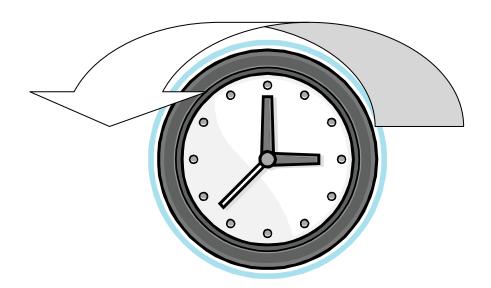
Ray — a part of a line starting at the ray's endpoint and continuing forever in one direction; often named by its endpoint and another point on the ray



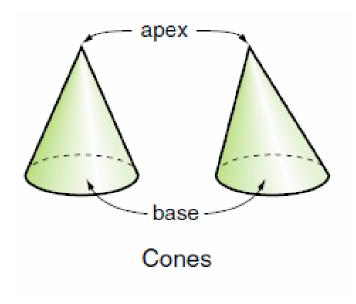
Clockwise (Right Turn) — the direction in which the hands move on a typical analog clock; a turn to the right



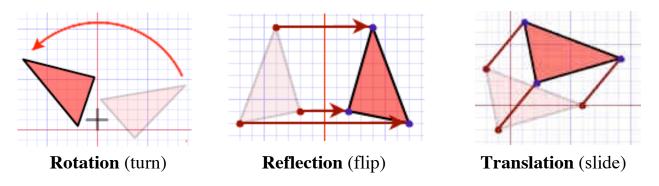
Counterclockwise (Left Turn) — opposite the direction in which the hands move on a typical analog clock; a turn to the left



Cone — a geometric solid with a circular base, a vertex called an apex not in the plane of the base, and all of the line segments with one endpoint at the apex and the other endpoint on the circumference of the base

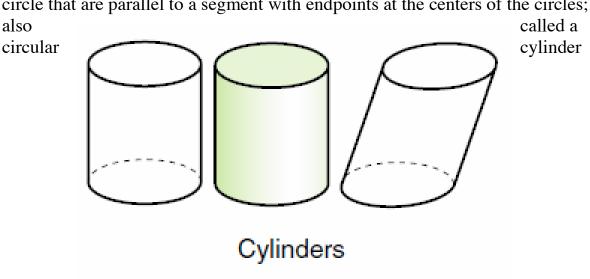


Congruent – figures having the same size and shape

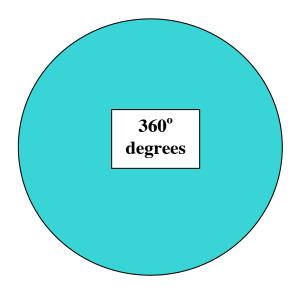


Also, sides and/or angles of figures having the same measure.

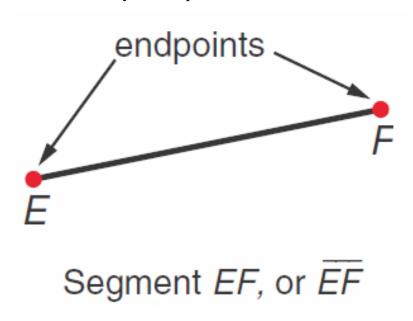
Cylinder — a geometric solid with two congruent, parallel circular regions for bases and a curved face formed by all the segments with an endpoint on each circle that are parallel to a segment with endpoints at the centers of the circles;



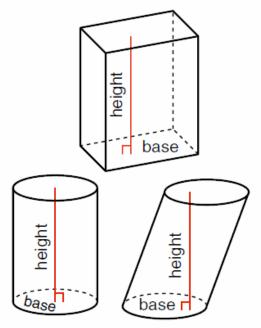
Degree — a unit of measure for angles based on dividing a circle into 360 equal parts; a unit for measuring temperature



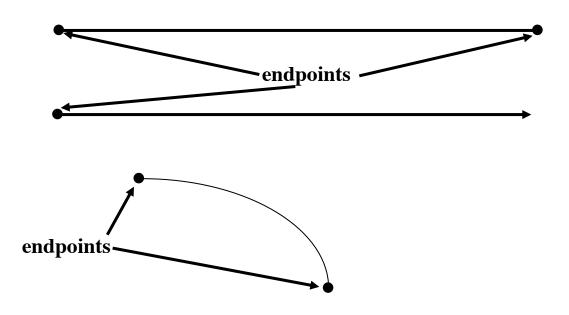
Line Segment – a part of a line between and including two points called endpoints; often named by its endpoints



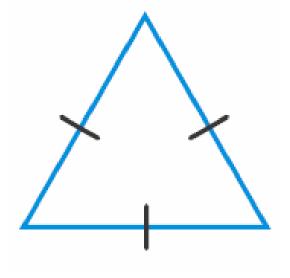
Edge — the length of the shortest line segment from a base of a prism or cylinder to the plane containing the opposite side; the height is perpendicular to the base



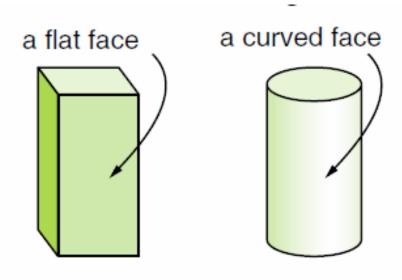
Endpoint — a point at the end of a line segment, ray or arc



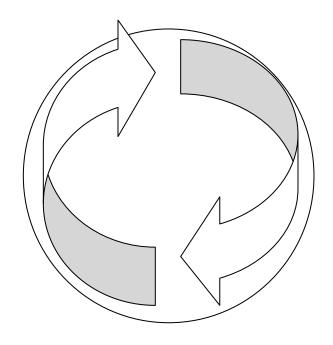
Equilateral Triangle – a triangle with all three sides equal in length; each angle measures 60°, so it is also called an equiangular triangle



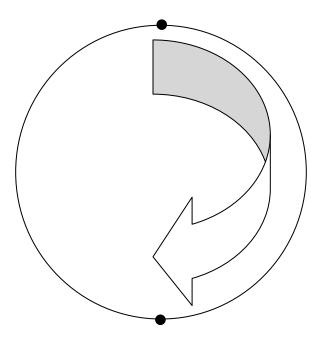
Face — a flat surface on a 3-dimensional shape; some special faces are called bases



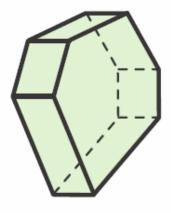
Full Turn — rotating or turning a full circle, or 360°



Half-turn – rotating or turning half the distance around a circle, or 180°

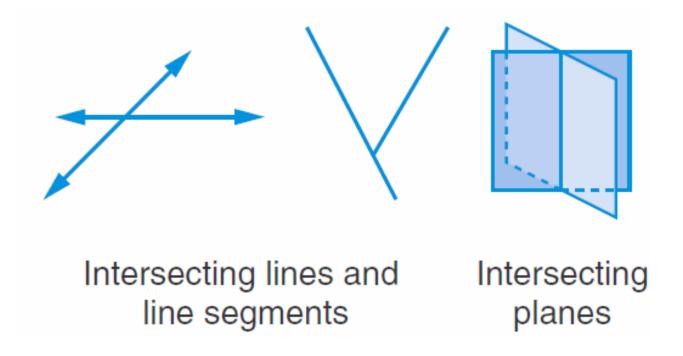


Hexagonal Prism — a polyhedron with two parallel and congruent polygonal regions for bases and lateral faces formed by all the line segments with endpoints on corresponding edges of the bases

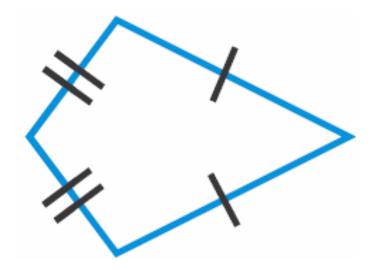


A hexagonal prism

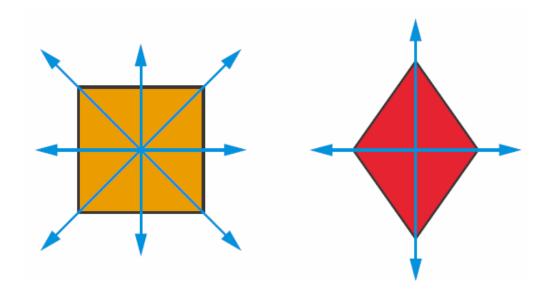
Intersect— to share a common point or points



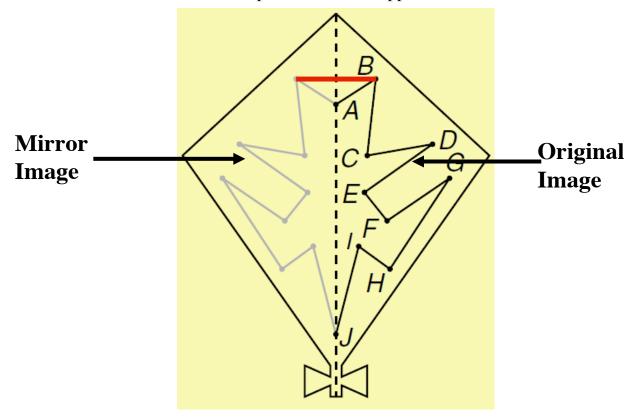
Kite – a quadrilateral with two distinct pairs of adjacent sides of equal length; the four sides **cannot** all have the same length



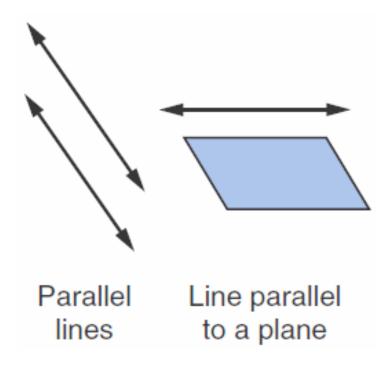
Line of Symmetry — a line that divides a figure into two parts that are reflection images of each other; a figure may have 1 or more lines of symmetry



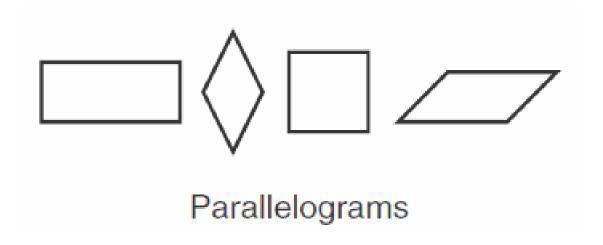
Mirror Image — like the reflection in a mirror; an object's mirror image is the same size and same shape but faces the opposite direction



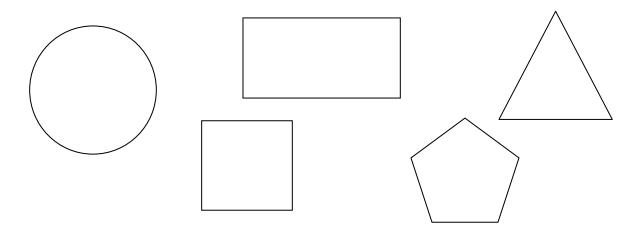
Parallel lines or line segments — lines or line segments that are in a plane and never meet; always the same distance apart



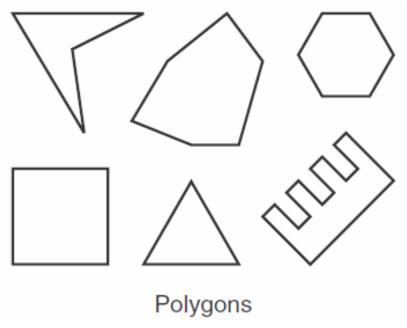
Parallelograms — a quadrilateral with two pairs of parallel sides; opposite sides have the same length, and opposite angles have the same measure



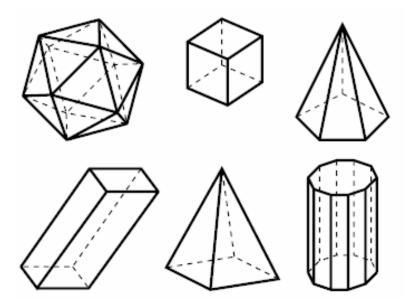
Plane Figures — a 2-dimensional figure that is entirely contained in a single plane



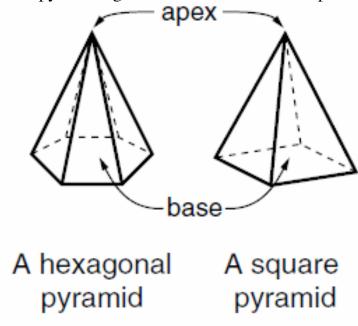
Polygon — a 2-dimensional figure formed by three or more line segments (sides) that meet only at their endpoints (vertices) to make a closed path; sides may **not** cross one another



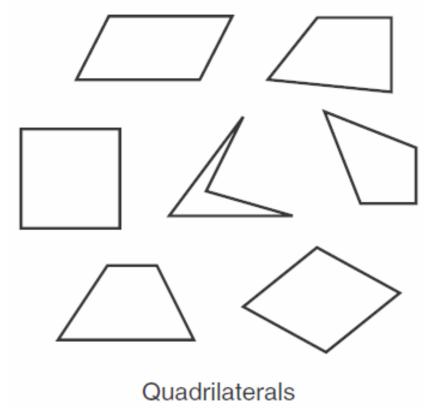
Polyhedron — a 3-dimensional figure formed by polygons with their interiors (faces) and having no holes; plural is polyhedrons or polyhedra



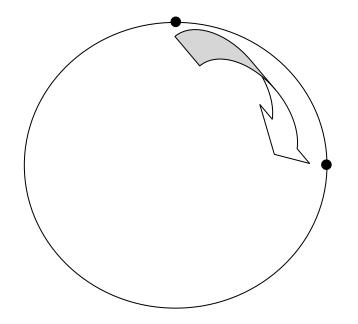
Pyramid — a polyhedron made up of any polygonal region for a base, a point (apex) not in the plane of the base, and all of the line segments with one endpoint at the apex and the other on an edge of the base; all faces except the base are triangular; pyramids get their name from the shape of their bases



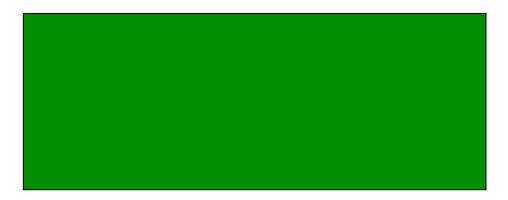
Quadrangle/Quadrilateral — a 4-sided polygon



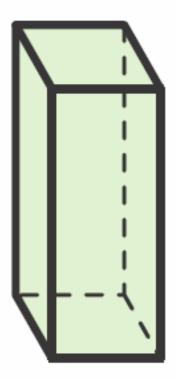
Quarter-turn — rotating, or turning, a half of a half-turn or a circle, or $90^{\rm o}$



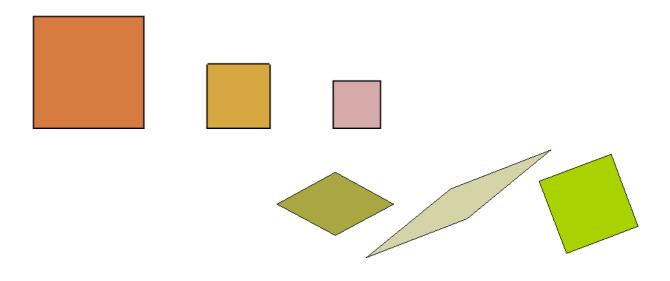
Rectangle — a parallelogram with all right angles



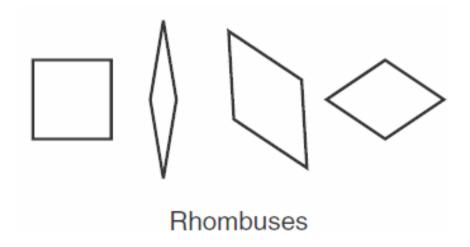
Rectangular Prism — a polyhedron with two parallel and congruent polygonal regions for bases and lateral faces formed by all the line segments with endpoints on corresponding edges of the bases



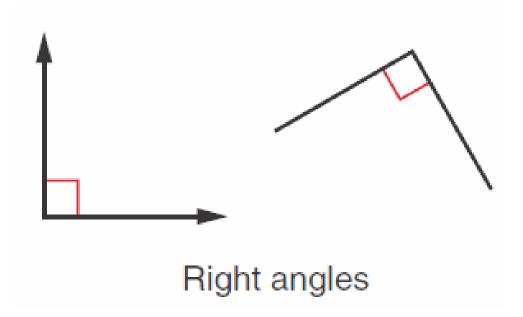
Regular Polygon — a polygon in which all sides are the same length and all angles have the same measure



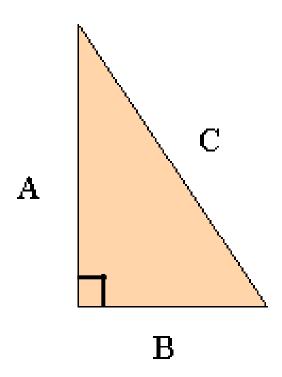
Rhombus — a parallelogram with all sides the same length; every square is a rhombus, but not all rhombuses are squares



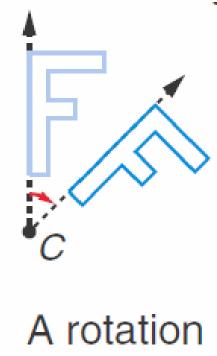
Right Angle – a 90° angle



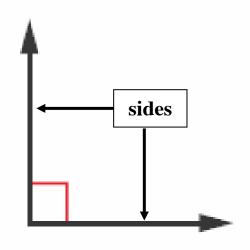
Right Triangle — a triangle with a right angle in its interior



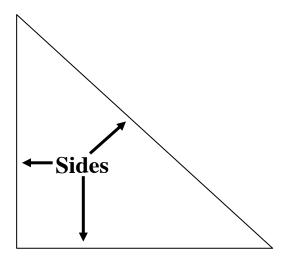
Rotation — a point P' is a rotation image of a point P around a center of rotation C if P' is on the circle with center C and radius CP; also known as a turn



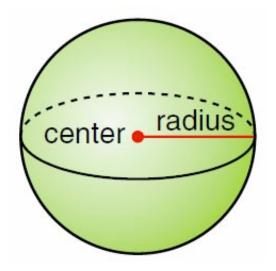
Side (of an angle) - one of the line segments that make up a polygon; one of the rays or segments that form an angle; one of the faces of a polygedron



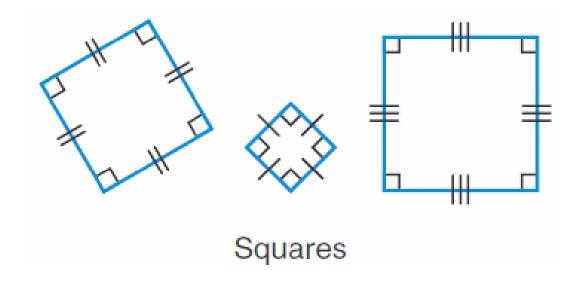
Side (of a triangle) - one of the line segments that make up a polygon; one of the rays or segments that form an angle



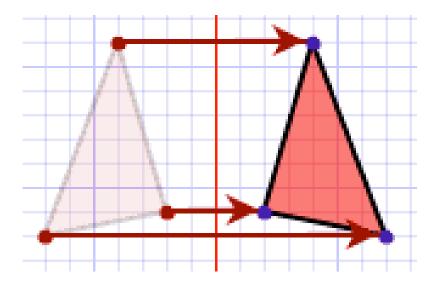
Sphere – the set of all points in space that are an equal distance from a fixed point called the center of the sphere; the distance from the cednter to the sphere is the radius of the sphere; the diameter of a sphere is twice its radius; points inside a sphere are not part of the sphere



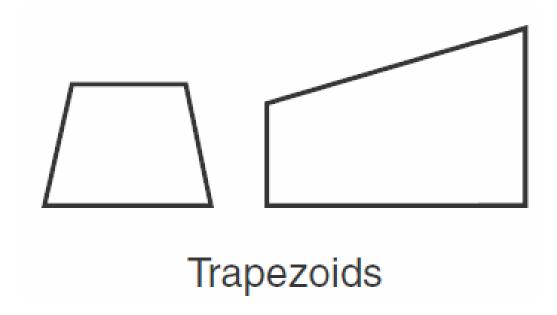
Square — a rectangle with all sides of equal length; all angles in a square are right angles; all squares are also rectangles, but not all rectangles are squares



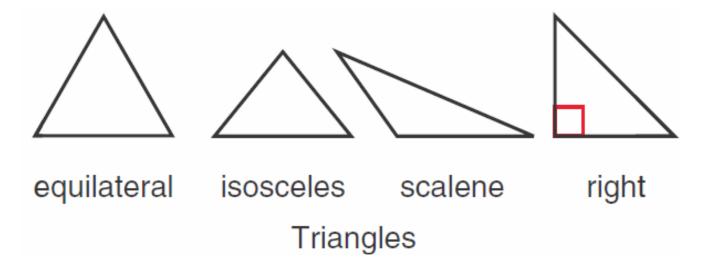
Symmetric Figure — a figure that exactly matches with its image under a reflection or rotation



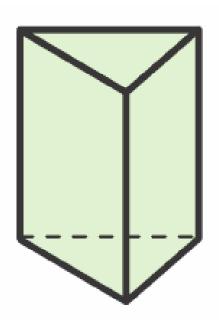
Trapezoid — a quadrilateral that has exactly one pair of parallel sides; both pairs of sides cannot be parallel



Triangle — a three-sided polygon



Triangular Prism - – a polyhedron with two parallel and congruent polygonal regions for bases and lateral faces formed by all the line segments with endpoints on corresponding edges of the bases; a triangular prism has a triangle for a base



Vertex/Vertices — the point at which the rays of an angle, the sides of a polygon, or the edges of a polyhedron meet; plural is vertexes or vertices; also known as a corner

